

IN THE CLAIMS:

Please cancel Claims 1 to 10 without prejudice or disclaimer of subject matter. The remaining claims, as pending in the application, read as follows:

Claims 1 to 10. (Cancelled).

11. (Original) A method of measuring an amount of a probe in a probe array wherein the probe array comprises a plurality of probes immobilized at a plurality of matrix sites on a substrate for capturing a target substance, the probes are sequentially synthesized at the matrix sites on the substrate until a desired length, the probes are different from each other, and a labeling compound is coupled to each terminus of the probes in a final step of the synthesis, comprising the step of measuring an amount of the labeling compound at each matrix site.

12. (Original) A method for evaluating an amount of a target substance comprising the steps of:

reacting a probe array and a target substance wherein the probe array comprises a plurality of probes immobilized at a plurality of matrix sites on a substrate for capturing a target substance, the probes are sequentially synthesized at the matrix sites on the substrate until a desired length, the probes are different from each other, and a labeling compound is coupled to each terminus of the probes in a final step of the synthesis;

measuring an amount of the labeling compound at each matrix site to determine an amount of the probe at the matrix site;

measuring an amount of a labeled target substance captured by the probe at the matrix site; and

comparing the amount of the probe with the amount of the labeled target substance.

13. (Original) The method according to claim 12, wherein the amount of the labeling compound coupled to the probe is compared with an amount of the labeling compound directly bonded to the substrate at a predetermined matrix site on the surface of the substrate during a first step of the sequential synthesis without elongation reaction.

14. (Original) A method of evaluating an amount of a target substance comprising the steps of:

reacting a probe array and a target substance, wherein the probe array comprises a plurality of probes immobilized at a plurality of matrix sites on a substrate for capturing a target substance, the probes are sequentially synthesized at the matrix sites on the substrate until a desired length, the probes are different from each other, and a labeling compound is coupled to each terminus of the probes in a final step of the synthesis; measuring an amount of the labeling compound at each matrix site to determine an amount of the probe at the matrix site;

measuring an amount of a labeled target substance captured by the probe at the matrix site;

measuring an amount of the labeling compound directly bonded to the substrate at a predetermined matrix site on the surface of the substrate during a first step of the sequential synthesis without elongation reaction; and

comparing the amount of the probe, the amount of the labeled target substance, and the amount of the directly bonded labeling compound.